

**Removal Action Cost Analysis
Potlatch/Bentcik Property Line Excavation
Avery Landing Site, Avery, Idaho**

Direct Capital Costs			
Item Description	Quantity	Unit	Cost/Unit
Excavation of Overburden	1,021	c.y.	\$2.52
Excavation of Contaminated Soil	5,553	c.y.	\$3.52
Material Handling	6,574	c.y.	\$2.64
Disposal of Contaminated Soil	7,607	ton	\$20
Transportation of Contaminated Soil	7,607	ton	\$24.50
Purchase & transport of additional fill	5,553	c.y.	\$7.00
Material Handling	6,574	c.y.	\$2.64
Geotextile	12,780	s.f.	\$0.40
Soil Placement and Compaction	6,574	c.y.	\$0.43
Seeding	0.57	acre	\$2,022
Fertilizer	0.57	acre	\$595
Subtotal Direct Capital Costs (rounded to nearest \$10,000)			
Indirect Capital Costs			
Engineering and Design (7%)			
Administration (5%)			
Legal Fees and License/Permit Costs (5%)			
3rd Party Construction Oversight (5%)			
Subtotal Indirect Capital Costs			
Subtotal Capital Costs			
Contingency Allowance (20%)			
Total Alternative Cost (rounded to nearest \$10,000)			
Note: Mobilization, Demobilization, operation of the groundwater treatment plant, crew per diem and lodging			

Cost	Reference
\$2,574	31 23 16 1030
\$19,545	31 23 16 1030
\$17,356	31 23 23.20 0014
\$152,142	Vendor Quote
\$186,374	Vendor Quote
\$38,868	Vendor Quote
\$17,356	31 23 23.20 0014
\$5,112	Estimate
\$2,827	31 23 23.23 5000
\$1,154	Vendor Quote
\$339	Vendor Quote
\$443,647	
\$31,000	
\$22,000	
\$22,000	
\$22,000	
\$97,000	
\$540,647	
\$108,000	
\$650,000	

not included.

Calculations:

Property Border Length: 355
Excavation Depth: 20
Excavation Base Width: 10
Side Slope: 1.5
Average depth to Contamination: 5.5

Total Excavation Volume: 177,500

or 6,574

Overburden Volume: 27,579

or 1,021

Contaminated Soil Volume: 149,921

or 5,553

ft
ft
ft
:1 (H:V) (on one side)
ft

cf

cy

cf
cy

cf
cy